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	Application No.	Applicant(s)
Notice of Allowability	10/708,860	AKATSU ET AL.
	Examiner	Art Unit
	Dao H. Nguyen	2818
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>09/11/2006</u> .		
2. The allowed claim(s) is/are <u>1-10 and 21-28</u> .		
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Daí 7. ⊠ Examiner's Amendr	te
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. П Examiner's Stateme	ent of Reasons for Allowance
	9.	
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Application/Control Number: 10/708;860

Art Unit: 2818

DETAILED ACTION

1. This Office Action is in response to the communications dated 09/11/2006 through 10/27/2006.

Claims 1-10 and 21-28 are active in this application.

Claim(s) 11-20 have been cancelled.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and /or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.3.12. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The following amendment has been made to the claim(s) upon agreement by applicant during a telephone conversation with Attorney Daryl K. Neff on 10/27/2006.

Claim 2 has been changed to include the underlined portion as follow:

2. A bipolar transistor, comprising:

a collector layer <u>including an active portion having a relatively high</u>

<u>dopant concentration and a second portion having a low dopant</u>

<u>concentration of less than about 5 x 10¹⁶ cm⁻³;</u>

an epitaxial intrinsic base layer overlying said collector layer;

a low-capacitance region laterally adjacent to said collector layer including a void disposed in an undercut underlying said intrinsic base layer, said void being either evacuated or filled with a gas;

an emitter layer overlying said intrinsic base layer; and a raised extrinsic base layer overlying said intrinsic base layer.

Allowance

3. Claims 1-10 and 21-28 are allowed.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dao Nguyen whose telephone number is (571)272-1791. The examiner can normally be reached on Monday-Friday 9:00am – 6:00pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith, can be reached on (571)272-1907. The fax numbers for all communication(s) is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-1625.

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October 27, 2006

Andy Muy Disaminer